

The background of the entire page is a microscopic image showing a dense packing of blue, spherical particles, likely colloids, with bright blue outlines and darker blue centers.

12TH AUSTRALIA-JAPAN COLLOID & INTERFACE SCIENCE SYMPOSIUM

21-23 November 2011
Novotel Cairns Oasis Resort
Australia



PROGRAMME
& ABSTRACTS



PROGRAMME OUTLINE

Sunday 20 November

Arrival in Cairns – Novotel Cairns, Oasis Resort

Monday 21 November

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| 9:00 am - 5:00 pm | Welcome
Technical sessions, Novotel Cairns Oasis Resort
Lunch, morning and afternoon teas |
| 5:00 pm – 6:30 pm | Poster Session |
| 6:30 pm – 10:30 pm | Australian Style BBQ at the poolside, Novotel Cairns Oasis Resort |

Tuesday 22 November

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|--------------------------|---|
| 8:40 am - 12:00 pm | Technical sessions, Novotel Cairns Oasis Resort, morning tea included |
| 12:00 pm - 12:30 pm | Pick up boxed lunch and walk or taxi to Cairns harbor, (approx. 1 km) |
| 12:55 pm
Boat Departs | Excursion to Green Island, Great Barrier Reef, Departs Cairns harbor 12:55 PM. Snorkelling, or glass bottom boat and walking on the island.
http://www.greatadventures.com.au/ . The excursion is included in the registration fee. |
| 5:15 pm | Return to Cairns |
| 7:00 pm – 11:00 pm | Conference Dinner, Novotel Cairns Oasis Resort, included in the registration fee |

Wednesday 23 November

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| 9:00 am - 4:00 pm | Technical sessions, Novotel Cairns Oasis Resort,
Lunch, morning and afternoon teas included |
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FULL PROGRAMME

DAY 1

MONDAY 21 NOVEMBER

TIME	SPEAKER	TITLE
9:00	KN: V.Craig	Heating Induced Wetting Transitions on Smooth and Textured Surfaces up to the Leidenfrost Temperature
9:30	K. Kurihara	Fluorescence Spectroscopy Based on Twin-Path Surface Forces Apparatus
9:50	R. Tabor	Homo- And Hetero-Interactions Between Air Bubbles and Oil Droplets Measured by Atomic Force Microscopy
10:10	Y. Saito	Frictional Properties of Aluminum Surfaces Fabricated by Using Honeycomb-Patterned Porous Films
10:30	N. Ishida	Effect of Surface Forces on Ordering of Two-Dimensional Colloidal Crystals Formed on Polyelectrolyte Multilayers
10:50	Tea	
11:20	K. Higashitani	How Does the Microstructure of Silica Surface in Solutions of Normal and High pH Change with AFM Measuring Time?
11:40	R. Dagastine	Hindered Diffusion of an Oil Drop Under Confinement and Surface Forces
12:00	M. Mizukami	Interfacial Water on Silica Surface in Cyclohexane Studied by Surface Forces Measurement and SFG Spectroscopy
12:20	M. Hashizume	Preparation of Free-Standing, Water-Insoluble Thin Films of Natural Polysaccharides by Utilizing Hot Press Technique
12:40	D. Matsukuma	Coalescence of Liquid Marbles with Different Structural Stability
1:00	Lunch	
2:00	KN: J. Oshitani	Counterions' Screening Effect on W/O Microemulsion Formation
2:30	T. Healy	The Surfactant System-Liquid Oleic Acid, Aqueous Oleate Anion, Aqueous Oleic Acid.
2:50	Y. Mino	<i>In-situ</i> Observation of Convective Self-Assembly Process of Colloidal Particles
3:10	Y. Takahashi	Preparation of Polymer Particles Using Emulsions Consisting of Ternary Mixtures
3:30	Tea	
4:00	P. Scales	The Failure of Colloidal Polymer Flocculated Networks
4:20	T. Sawada	Development of Novel Hydrogels Composed of Filamentous Viruses
4:40	K. Thompson	Covalently Cross-linked Colloidosomes
5:00	POSTER SESSION	
6:30	BBQ	

DAY 2

TUESDAY 22 NOVEMBER

TIME	SPEAKER	TITLE
8:40	KN: E. Wanless	Stimulus-Responsive Polymer Brushes as Probed using QCM-D
9:10	G. Webber	Time and pH-Dependent Conformational Changes in Polymer Brushes
9:30	S. Hyde	Human Skin and Butterfly Wings: Grand Designs for Keratin and Collagen <i>in vivo</i> .
9:50	S. Watanabe	Morphology Control of Self-Assembled Colloidal Pattern
10:10	Tea	
10:40	A. Perriman	Structure and Function in Solvent-Free Protein Liquids
11:00	O. Shimoni	Subcompartmentalized PMA Hydrogel Capsules (SHCs)
11:20	R. Tero	Single Molecule Tracking in Supported Lipid Bilayers: Effect of Surface Nanostructures on Spatiotemporal Dependence of Lipid Diffusion
11:40	C. McNamee	How Stable Langmuir Monolayers of Bare TiO ₂ Particles can be Formed at an Air/Water Interface by Simply Controlling the Physical Properties of the Subphase
12:00	Pick up Lunch	
12:20	Walk to Boat	
12:55	Boat to Green Island departs	
5:15	Return from Green Island	
7:00	Banquet	

DAY 3

WEDNESDAY 22 NOVEMBER

TIME	SPEAKER	TITLE
9:00	KN: S. Deguchi	Mining Unexplored Microbial Resources using Nanofibrous Cellulose
9:30	R. Crawford	Bacterial Retention on Superhydrophobic Titanium Surfaces
9:50	Y. Nagai	ATP Structures Bound to ATP-Binding Proteins and those of Freely Moved Case in Water
10:10	S. Fujii	Templateless Micro-nano Surface Patterning of Nanomaterials at Three Phase Boundary of Laser-induced Micronanobubble
10:30	N. Toshima	A Crown Jewel Catalyst: A Novel Concept to Design Highly Active Colloidal Catalysts
10:50	Tea	
11:20	H. Kanoh	Secondary Structures of Polypeptides Adsorbed on Nanoporous Carbons from Aqueous Solution
11:40	M. Hollamby	Reverse Micelles of Small, Hydrophobic Fullerene Amphiphiles in Alkanes
12:00	X. Zhang	Evaporation-Induced Flattening and Self-Assembly of Chemically Converted Graphene on Solid Surfaces
12:20	S. Nimura	Dynamic Quantum Molecular Sieving Separation of Hydrogen and Deuterium from their Mixture on Activated Carbon Fiber
12:40	A. Otsuki	The use of Geopolymer as a Binder in Agglomeration for Heap Leaching Operations
1:00	Lunch	
2:00	KN: M. Miyahara	Towards the Cutting-Edge Characterization of Nanopores Based Totally on Molecular Simulation Kernel
2:30	A. Stickland	Cracking of Colloidal Suspensions during Drying Processes
2:50	N. Nicholas	FTIR Study of the Specific Adsorption of Growth Directing Molecules on ZnO Surfaces
3:10	C. Tallon	Microstructural Changes in Ceramic Particle Stabilized Foams through the Control of Colloidal System Parameters
3:30	G. Franks	Controlling Thickener Underflow Rheology using Temperature Responsive Flocculants
3:50	G. Franks	CLOSING REMARKS

POSTER SESSION

C. Tallon	Structural Ceramic Nanocomposites Prepared via a Novel Colloidal Route
D. Ishii	Mass-Dependent Water Droplet Adhesion on Biomimetic Superhydrophobic Gradient Structures Prepared by Self-Organization
E. Adachi	Shape Stability of Plate-like Silver Nanoparticles Adhered on Plate-like α -alumina Powders in Sodium Halide Aqueous Solutions
H. Takahashi	Electrochemical Control of Spontaneous Vesicle Formation in Aqueous Solutions of Single-Tailed Ferrocenyl Surfactant
H. Yabu	Hierarchic Structures in Spherical Confinement Spaces of Block-copolymers and Polymer Blends
K. Fukuyasu	Influence of UV irradiation on O/W emulsions prepared with photoresponsive gemini surfactant
K. Tsuzuki	Supported Lipid Membranes on Reduced Graphene Oxide
M. Nakaya	Random Dope of Transition Metal Ion into CdS Nanoparticles in Zincblende Phase and their Magnetic Properties
R. Dagastine	Sterically Stabilized Emulsions: How Important Is the Polymer Brush?
R. Tamura	Permeability in Redox-active Multilayered Films of Ru/Os Complexes on Electrode
S. Nakano	Synchrotron X-ray Diffraction Study of Liquid Crystal Nano-Films Confined between Mica Surfaces
T. Fukasawa	Photoacoustic Signal from Laser-irradiated Gold Nanoparticles
T. Jinno	Arrangement of Gold Nanoparticles in Micro-phase Separation Structures of Block copolymers by using inverse Opals as a template
T. Koshiyama	Synthesis and Characterization of Monodisperse Nickel Nanoparticles using a Microreactor
T. Nakabayashi	Fabrication of multilayer films of Ru/Os dinuclear complexes with a strong metal-metal interaction on a surface and their electrochemical behaviour
W. Greene	Force Amplification Response of Actin Filaments Under Confined Compression
Y. Hirai	Fabrication of Biomimetic Water-Collection and Water-Transportation Surfaces by using Self-Organized Polymer Templates
Y. Okamoto	Fabrication and Structural Observation of Graphene-Oxide-Supported Lipid Bilayer